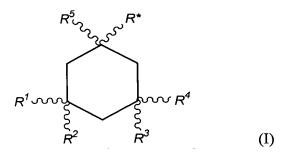
LISTING OF CLIAMS

Claims 1-24 (CANCELED)

- 25. (NEW) A method for treating pain hypersensitivity in a living animal body, including a human, such method comprising administering to the living animal body, including a human, a therapeutically effective amount of an 1-amino-alkylcyclohexane derivative.
- 26. (NEW) The method of Claim 25, wherein the pain hypersensitivity is hyperalgesia.
- 27. (NEW) The method of Claim 25, wherein the pain hypersensitivity is allodynia.
- 28. (NEW) The method of Claim 25, wherein the pain hypersensitivity is selected from visceral hypersensitivity, musculoskeletal allodynia/hyperalgesia, and cutaneous allodynia/hyperalgesia.
- 29. (NEW) The method of Claim 28, wherein the visceral hypersensitivity is associated with disorders selected from irritable bowel syndrome (IBS), gastroesophageal reflux disease (GERD), and functional dyspepsia.
- 30. (NEW) The method of Claim 25, wherein the 1-amino-alkylcyclohexane derivative is selected from those of formula (I):



wherein R* is --(CH₂)_n--(CR⁶R⁷)_m--NR⁸R⁹ wherein n+m=0, 1, or 2

wherein R^1 through R^7 are independently selected from hydrogen and lower-alkyl (1-6C), at least R^1 , R^4 , and R^5 being lower-alkyl, and wherein R^8 and R^9 are independently selected from the group consisting of hydrogen and lower-alkyl (1-6C) or together represent lower-alkylene --(CH₂)_x-- wherein x is 2 to 5, inclusive, and enantiomers, optical isomers, hydrates, and pharmaceutically-acceptable salts thereof.

31. (NEW) The method of Claim 30, wherein the 1-amino-alkylcyclohexane derivative is selected from:

1-amino-1,3,5-trimethylcyclohexane,

1-amino-1(trans),3(trans),5-trimethylcyclohexane,

1-amino-1(cis),3(cis),5-trimethylcyclohexane,

1-amino-1,3,3,5-tetramethylcyclohexane,

1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane),

1-amino-1,3,5,5-tetramethyl-3-ethylcyclohexane,

1-amino-1,5,5-trimethyl-3,3-diethylcyclohexane,

1-amino-1,5,5-trimethyl-cis-3-ethylcyclohexane,

1-amino-(1S,5S)cis-3-ethyl-1,5,5-trimethylcyclohexane,

1-amino-1,5,5-trimethyl-trans-3-ethylcyclohexane,

1-amino-(1R,5S)trans-3-ethyl-1,5,5-trimethylcyclohexane.

1-amino-1-ethyl-3,3,5,5-tetramethylcyclohexane,

1-amino-1-propyl-3,3,5,5-tetramethylcyclohexane,

N-methyl-1-amino-1,3,3,5,5-pentamethylcyclohexane,

N-ethyl-1-amino-1,3,3,5,5-pentamethyl-cyclohexane,

N-(1,3,3,5,5-pentamethylcyclohexyl) pyrrolidine,

3,3,5,5-tetramethylcyclohexylmethylamine,

1-amino-l-propyl-3,3,5,5-tetramethylcyclohexane,

1 amino-1,3,3,5(trans)-tetramethylcyclohexane (axial amino group),

3-propyl-1,3,5,5-tetramethylcyclohexylamine semihydrate,

1-amino-1,3,5,5-tetramethyl-3-ethylcyclohexane,

1-amino-1,3,5-trimethylcyclohexane,

1-amino-1,3-dimethyl-3-propylcyclohexane,

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1-amino-1,3(trans),5(trans)-trimethyl-3(cis)-propylcyclohexane,
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1-amino-1,3-dimethyl-3-ethylcyclohexane,

1-amino-1,3,3-trimethylcyclohexane,

cis-3-ethyl-1(trans)-3(trans)-5-trimethylcyclohexamine,

1-amino-1,3(trans)-dimethylcyclohexane,

1,3,3-trimethyl-5,5-dipropylcyclohexylamine,

1-amino-1-methyl-3(trans)-propylcyclohexane,

1-methyl-3(cis)-propylcyclohexylamine,

1-amino-1-methyl-3(trans)-ethylcyclohexane,

1-amino-1,3,3-trimethyl-5(cis)-ethylcyclohexane,

1-amino-1,3,3-trimethyl-5(trans)-ethylcyclohexane,

cis-3-propyl-1,5,5-trimethylcyclohexylamine,

trans-3-propyl-1,5,5-trimethylcyclohexylamine,

N-ethyl-1,3,3,5,5-pentamethylcyclohexylamine,

N-methyl-l-amino-1,3,3,5.5-pentamethylcyclohexane,

1-amino-l-methylcyclohexane,

N,N-dimethyl-1-amino-1,3,3,5,5-pentamethylcyclohexane,

2-(3,3,5,5-tetramethylcyclohexyl)ethylamine,

2-methyl-1-(3,3,5,5-tetramethylcyclohexyl)propyl-2-amine,

2-(1,3,3,5,5-pentamethylcyclohexyl-1)-ethylamine semihydrate,

N-(1,3,3,5,5-pentamethylcyclohexyl)-pyrrolidine,

1-amino-1,3(trans),5(trans)-trimethylcyclohexane,

1-amino-1,3(cis),5(cis)-trimethylcyclohexane,

1-amino-(1R,SS)trans-5-ethyl-1,3,3-trimethylcyclohexane,

1-amino-(1S,SS)cis-5-ethyl-1,3,3-trimethylcyclohexane,

1-amino-1,5, 5-trimethyl-3(cis)-isopropyl-cyclohexane,

1-amino-1,5,5-trimethyl-3(trans)-isopropyl-cyclohexane,

1-amino-1-methyl-3(cis)-ethyl-cyclohexane,

1-amino-1-methyl-3(cis)-methyl-cyclohexane,

1-amino-5,5-diethyl-1,3,3-trimethyl-cyclohexane,

1-amino-1,3,3,5,5-pentamethylcyclohexane,

1-amino-1,5,5-trimethyl-3,3-diethylcyclohexane,

1-amino-l-ethyl-3,3,5,5-tetramethylcyclohexane,

N-ethyl-l-amino-1,3,3,5,5-pentamethylcyclohexane,

N-(1,3,5-trimethylcyclohexyl)pyrrolidine or piperidine,

N-[1,3(trans),5(trans)-trimethylcyclohexyl]pyrrolidine or piperidine,

N-[1,3(cis),5(cis)-trimethylcyclohexyl]pyrrolidine or piperidine,

N-(1,3,3,5-tetramethylcyclohexyl)pyrrolidine or piperidine,

N-(1,3,3,5,5-pentamethylcyclohexyl)pyrrolidine or piperidine,

N-(1,3,5,5-tetramethyl-3-ethylcyclohexyl)pyrrolidine or piperidine,

N-(1,5,5-trimethyl-3,3-diethylcyclohexyl)pyrrolidine or piperidine,

N-(1,3,3-trimethyl-cis-5-ethylcyclohexyl)pyrrolidine or piperidine,

N-[(1S,SS)cis-5-ethyl-1,3,3-trimethylcyclohexyl]pyrrolidine or piperidine,

N-(1,3,3-trimethyl-trans-5-ethylcyclohexyl)pyrrolidine or piperidine,

N-[(1R,SS)trans-5-ethyl,3,3-trimethylcyclohexyl]pyrrolidine or piperidine,

N-(1-ethyl-3,3,5,5-tetramethylyclohexyl)pyrrolidine or piperidine,

N-(1-propyl-3,3,5,5-tetramethylcyclohexyl)pyrrolidine or piperidine,

N-(1,3,3,5,5-pentamethylcyclohexyl)pyrrolidine,

their optical isomers, diastereomers, enantiomers, hydrates, their pharmaceutically acceptable salts, and mixtures thereof.

- 32. (NEW) A method for treating neuropathic pain in a living animal body, including a human, such method comprising administering to the living animal body, including a human, a therapeutically effective amount of an 1-amino-alkylcyclohexane derivative devoid of an adamantane (pyramidal) structure.
- 33. (NEW) The method of Claim 30, wherein the 1-amino-alkylcyclohexane derivative is selected from neramexane and prodrugs, salts, isomers, analogs and derivatives thereof.
- 34. (NEW) The method of Claim 33, wherein the 1-amino-alkylcyclohexane derivative is neramexane.

- 35. (NEW) The method of Claim 30, wherein the 1-amino-alkylcyclohexane derivative is administered in an amount of 1 to 200 mg per day.
- 36. (NEW) The method of Claim 35, wherein the 1-amino-alkylcyclohexane derivative is administered in an amount of 10 to 40 mg per day.
- 37. (NEW) A method for treating pain hypersensitivity in a living animal body, including a human, such method comprising administering to the living animal body, including a human, a therapeutically effective amount of an 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane), or prodrug, salt, isomer, analog or derivative thereof.
- 38. (NEW) The method of Claim 37, wherein the pain hypersensitivity is hyperalgesia.
- 39. (NEW) The method of Claim 37, wherein the pain hypersensitivity is allodynia.
- 40. (NEW) The method of claim 37, wherein the pain hypersensitivity is selected from visceral hypersensitivity, musculoskeletal allodynia/hyperalgesia and cutaneous allodynia/hyperalgesia.
- 41. (NEW) The method of Claim 40, wherein the visceral hypersensitivity is associated with disorders selected from irritable bowel syndrome (IBS), gastroesophageal reflux disease (GERD), and functional dyspepsia.
- 42. (NEW) A method for treating neuropathic pain in a living animal body, including a human, such method comprising administering to the living animal body, including a human, a therapeutically effective amount of an 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane) or prodrug, salt, isomer, analog, or derivative thereof.
- 43. (NEW) The method of Claim 37, wherein the 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane) or prodrug, salt, isomer, analog, or derivative thereof is administered in an amount of 1 to 200 mg per day.

- 44. (NEW) The method of Claim 43, wherein the 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane) or prodrug, salt, isomer, analog, or derivative thereof is administered in an amount of 10 to 40 mg per day.
- 45. (NEW) The method of Claim 37, wherein the 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane) or prodrug, salt, isomer, analog, or derivative thereof is administered in an amount of 5 to 100 mg per day.
- 46. (NEW) The method of Claim 45, wherein the 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane) or prodrug, salt, isomer, analog, or derivative thereof is administered in an amount of 12.5 to 80 mg per day.
- 47. (NEW) The method of Claim 42, wherein the 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane) or prodrug, salt, isomer, analog, or derivative thereof is administered in an amount of 1 to 200 mg per day.
- 48. (NEW) The method of Claim 47, wherein the 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane) or prodrug, salt, isomer, analog, or derivative thereof is administered in an amount of 10 to 40 mg per day.
- 49. (NEW) The method of Claim 42, wherein the 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane) or prodrug, salt, isomer, analog, or derivative thereof is administered in an amount of 5 to 100 mg per day.
- 50. (NEW) The method of Claim 49, wherein the 1-amino-1,3,3,5,5-pentamethylcyclohexane (neramexane) or prodrug, salt, isomer, analog, or derivative thereof is administered in an amount of 12.5 to 80 mg per day.